Thank You for purchasing the

IND-X600U

IN-DASH CD/MP3 RECEIVER
WITH AM/FM TUNER AND USB/SD/AUX-IN

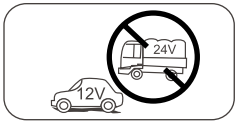
USER MANUAL
VERSION 1.0

Bravo View Technology
20153 Paseo Del Prado
Walnut, CA 91789
United States of America
www.bravoview.com

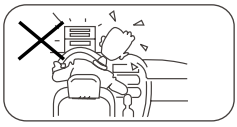
SAFETY PRECAUTIONS

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

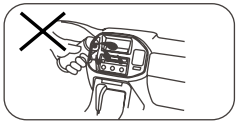
Only connect the unit to a 12-volt power supply with negative grounding.



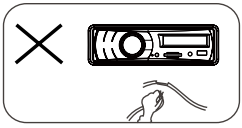
Never install this unit where the operation & condition for safety driving is restrained.



Never expose this unit, amplifier, and speakers to moisture or water for preventing electric sparks or fires.



Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.

Please power off this unit at once and send it back to the after-sales service center or the dealer/distributor you purchased from if one of the following symptoms is found:

(a). Water or other obstacle enters the unit;
(b). Smoking;
(c). Peculiar smell.

To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration was used. However, this illustration is not necessary printed as the actual image found on the unit.

FEATURES

WMA and MP3 Compatibility

It is possible to playback WMA and MP3 files.

About WMA

The unit can playback WMA data.
Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
This unit may not operate correctly depending on the application used to encode WMA files.

About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e.revenue-generating) realtime broadcasting (terrestrial, satellite, cable and/or any other media), broad-casting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

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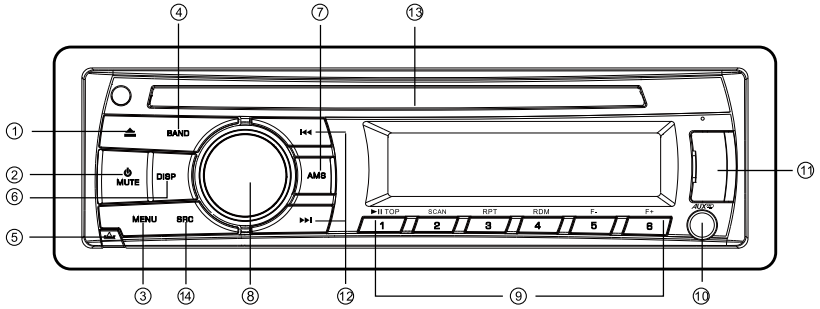
PANEL CONTROLS

Power ON: Press [⏻ /MUTE] button to turn on the unit.

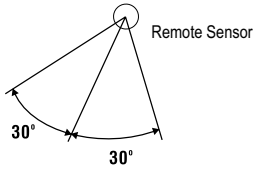


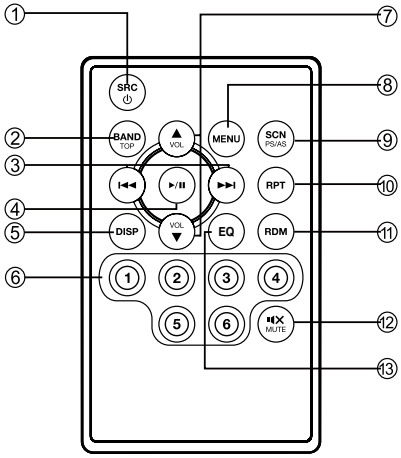
1. - Press to eject disc.
2. - Power / Mute
3. - MP3/WMA DISC mode - Search function.
   - SD/MMC mode – Search function.
   - CD mode – No function.
   - AUX mode – No function.
   - USB mode – Search function
   - RADIO mode – PTY function.
4. - Band switch (in Radio mode)
5. - Unlock the front panel.
6. - Display switch
   - System setup (long press)
7. - Scan play / Preset scan
   - Auto memory store (long press)
8. - Adjust volume level / Confirm (press)
9. - Button 1: Play / Pause / Top play (long press) / Preset station 1
   - Button 2: Scan play / Preset station 2.
   - Button 3: Repeat play / Preset station 3.
   - Button 4: Random play / Preset station 4.
   - Button 5: Previous folder / Preset station 5. /MP3 track -10 down (long press)
   - Button 6: Next folder / Preset station 6. /MP3 track +10 up (long press)
10. - Aux-in jack
11. - USB connector
12. - Previous / next track
    - Seek + / - (long press)
13. - Disc slot
14. - Toggle the audio source

REMOTE CONTROLS

Operating range

Point the remote control unit to the remote sensor when you operate with it.
The remote control can operate within a distance of 3~5m.





1. - Toggle the audio source
   - Power on / Power off (long press)
2. - Band switch: FM1, FM2, FM3, MW1, MW2
   -MP3/WMA mode – Top play (long press)
   - CD mode – Top play (long press)
3. - Radio tune
   - Track seek
4. - Play / Pause
5. - Display switch
6. - Buttons
   [1] Button: Preset station 1.
   [2] Button: Preset station 2.
   [3] Button: Preset station 3.
   [4] Button: Preset station 4.
   [5] Button: Preset station 5.
   [6] Button: Preset station 6.
7. - Volume up / down
8. - Press to enter menu mode.
9. - Scan play / Preset scan
   - Auto memory store (long press)
10. - Repeat play
11. - Random play
12. - Mute the volume
13. - EQ

Replacing the lithium battery of remote control unit.

When the range of the operation of the card remote control becomes short or no functions while operating. Replace the battery with a new lithium battery. Make sure the battery Polarity replacement is correct.

1. Pull out the battery holder while pressing the stopper.
2. Insert the button-type battery with the stamped(+) mark facing upward.
   Insert the battery holder into the remote control.

WARNING:

- Store the battery in place where children cannot reach. If a child accidentally swallowed the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire. Doing this may cause the battery to give off heat, crack or start a fire.
- Do not leave the battery with other metallic materials or poke the battery with tweezers or similar tools.
- When throwing away or saving the battery, wrap it in tape and insulate.

GENERAL OPERATION

Power On/Off Button

Press the **[⏻ /MUTE]** button to turn the unit on when the vehicle ignition switch is on. Press and hold the button to turn the unit off.

Adjust Volume level

Rotate the knob to adjust volume level. Rotate it clockwise to increase and anticlockwise to decrease the volume.

Audio Mute

Press the **[⏻ /MUTE]** button to mute the volume from the system. “MUTE” will appear on the display panel and the volume will be muted. Press the **[⏻ /MUTE]** button again, or rotate or press the knob to return the volume level to the setting in use before the Mute function was activated.

Mode Button (SRC)

Press the **[SRC]** button to change between Radio, DISC (when disc is in), USB (when USB is connected), Card(when SD/MMC card is in), or AUX play.

Auxiliary Input

To access an auxiliary device:

1. Connect the portable audio player to the AUX interface on the front panel.
2. Press the [**SRC**] button to select Aux-In mode.

Press SRC again to cancel Aux-In mode and go to the next mode.

Display Selector (DISP)

Prest the **[DISP]** button to display the clock time, the time will display at all times. Prest the **[DISP]** button again to turn back previous mode.

SOUND SETTING

Press and hold the **[MENU]** button to enter sound effect setting mode. First press shows current EQ, then rotate the knob to changes BEAT EQ in this order:

OFF <-> POP <-> CLASSIC <-> ROCK <-> JAZZ <-> CUSTOM

Rotate the knob to changes CUSTOM, and press the knob, the press [⏮] or [⏭] button to select it including: BAS-G -> TRE-G , rotate the knob to select a value.
BAS-G / TRE-G: (-7)- (+7)

Press and hold the **[MENU]** button to enter sound effect setting mode, then press [⏮] or [⏭] button to select USER preset including: BALANCE -> FADER -> LOUD, rotate the knob to select a value.
BALANCE:LEFT 1-7->CENTRE->RIGHT 1-7
FADER:FRONT 1-7->CENTRE->REAR 1-7
LOUD: ON/OFF

TUNER OPERATION

Band

During radio play, press the [**BAND**] button to choose between three FM, two AM bands.

Up Tuning

Press the seek up [▶▶I] button to tune stations upward step-by-step. The current frequency will be shown in digital format on the display panel.

Press and hold the seek [▶▶I] button to the next available station.

Down Tuning

Press the seek down [I◀◀] button to tune stations downward step-by-step.

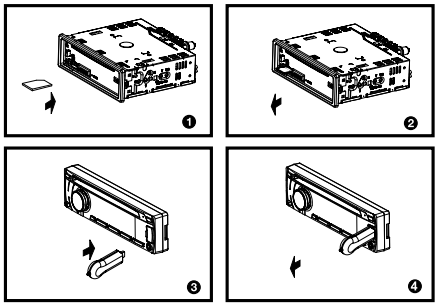
Press and hold the seek down [I◀◀] button to the previous available station.

Auto Memory Store

Press the [**AMS**] button to automatically select six stations and store them in the current band. The new stations replace stations already stored in that band.

USB/SD/MMC/MP3 Playback

1. Loading SD/MMC Card
   Insert the SD/MMC card into the slot.
   The unit will play the music automatically and the LCD will show CARD.
2. Take out SD/MMC Card
   Push SRC button and switch to non CARD mode, slightly press SD/MMC card, take out the card when it was popped out.
3. Loading USB equipment
   Open the rubber cap, insert the USB into the connector and the unit play the music in the USB storer automatically, and the LCD will show USB.
4. Take out USB equipment
   Push the SRC button and switch to non USB mode, then take off the USB storer, close the rubber cap.



USB/SD/MMC Notes

USB functions (flash memory type) MP3 music play

1. SD/ MMC card support.
2. USB flash memory 2 in 1 (SD/MMC) support.
3. Fat 12/fat 16/fat 32 is possible.
4. File name : 32 byte/dir name : 32 byte/tag name : 32 byte
5. Tag (ID3 tag ver 2.0)
   - title/artist/album : 32 byte support.
6. Multi card reader not support.
7. USB 1.1 support, USB 2.0 support (It can not support USB 2.0 speed. Just, get the same speed with USB 1.1).
   Not all kinds of USB devices are compatible with the unit.

Note:

Not all USB devices are compatible with the unit.

CD/MP3/WMA OPERATIONS

This unit can play back MP3/WMA files

Notes:

If you play a WMA file with active DRM (Digital Rights Management), no audio is output.

To disable DRM
(Digital Rights Management)

When using Windows Media Player 9/10/11, click on Tool -> Options -> Copy music tab, then under Copy settings, unclick the Check box for Copy protect music. Then, reconstruct files.

Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3/ WMA file

Usable sampling rates and bit rates

1. MP3: Sampling rate 8 kHz-48 kHz, Bit rate 8 kbps-320 kbps / VBR
2. WMA: Bit rate 8 kbps-320 kbps

File extensions

1. Always add a file extension ".MP3", ".WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
2. Files without MP3/WMA data will not play. The files will be played soundlessly if you attempt to play files without MP3/WMA data.
   * When VBR files are played, the play time display may differ the play location.
   * When MP3/WMA files are played, a little no sound part is caused between tunes.

Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or Joliet or Romeo" or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 32 single byte alphabetical letters and numerals (including an extension).
3. Do not affix a name to a file inside a folder having the same name.

Folder structure

A disc with a folder having more than 8 hierarchical levels will be impossible.

Number of files or folders

1. Up to 999 files can be recognized per folder.
   Up to 3000 files can be played.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks may not always be played in the order displayed on the PC.)
3. Some noise may occur depending on the type of encoder software used while recording.

Eject function

Just pressing the [⏏] button, ejects the disc even if the power to the unit was not turned on.

Notes:

- If you force a CD into before auto reloading, this can damage the CD.
- If a CD (12 cm) is left ejected for 15 seconds, the CD is automatically reloaded (Auto reload).

Listening to a disc already loaded in the unit

Press the [**SRC**] button to select the CD/MP3/ WMA mode.

When the unit enters the CD/MP3/WMA mode, play starts automatically.

Loading a CD

Insert a CD into the center of the CD SLOT with label facing up. The CD plays automatically after loading.

Notes:

- Never insert foreign objects into the CD SLOT.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.
- Discs without the or mark and CD-ROMs cannot be played by this unit.
- Some CD-R/CD-RW discs may not be usable.

CD/MP3/WMA OPERATIONS

Pausing play

1. Press the [**1**] button on the front panel or the [▶/II **TOP**] button on the remote control to pause play.
   "**PAUSE**" appears in the display.
2. Press the above button again to resume CD play.

Displaying CD titles

This unit can display title data for MP3/WMA disc.
When SCROLL is OFF, each time you press the [**DISP**] button to change the title display.

MP3/WMA disc
FILE --> FOLDER --> TITLE --> ARTIST --> ALBUM

Notes:
- If MP3/WMA disc is not input TAG, "**NO TITLE**" appears in the display.
- Only ASCII characters can be displayed in Tags.

Selecting a track

Track-up
1. Press the [▶▶I] button to move to the beginning of the next track.
2. Each time you press the [▶▶I] button, the track advances to the beginning of the next track.
3. For MP3/WMA disc, press and hold the [**6**] button (1 sec.) to move ahead to +10 tracks.

Track-down
1. Press the [I◀◀] button to move back to the beginning of the current track.
2. Press the [I◀◀] button twice to move back to the beginning of the previous track.
3. For MP3/WMA disc, press and hold the [**5**] button (1 sec.) to move back to -10 tracks.

Fast-forward/Fast-reverse

Fast-forward
Press and hold the [▶▶I] button .
Fast-reverse
Press and hold the [I◀◀] button .
* For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, some error may occur in the play time.

Folder select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.
1. Press the [**5**] or [**6**] button.
   Press the [**5**] button to move the previous folder. Press the [**6**] button to move the next folder.
2. To select a track, press the [I◀◀] or [▶▶I] button.

Search Function

Press the [**MENU**], then rotate the knob to choose FOLD SCH or TRK SCH.
Direct Song/File Access
1. Press the knob to enter the track list search mode.
2. Turn the knob to select a digit.
3. Press the knob to confirm entry and the tens digit will flash.
4. Turn the knob to select digit.
5. Repeat above steps to enter the hundreds and thousands digit, if necessary.
   NOTE: The unit will only allow the selection of digits that correspond with the number of files on the media you are searching.
6. Once the track number appears on the screen, press the knob to play the selected song/file.

Searching Folders/Files
1. Press the knob to enter the folder list search mode.
2. Turn the knob to select a file or folder, press the [**MENU**] botton to turn back the previous folder.
3. Press the knob to enter the search mode. And then the list appears in the display.
4. Turn the knob to select a track or folder.
5. If there is a track, press the knob to play. If there is a folder, press the knob to go on searching.

* When play back MP3 / WMA file, this function is performed in the current folder.

Top function

The top function resets the CD player to the first track of the disc. Press and hold the [**1**] button (1 sec.) to play the first track (track No. 1) on the disc.
* In case of MP3/WMA, the first track of the current folder will be played.

Other various play functions

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

Press the [**2**] button to perform scan play.

Repeat play

This function allows you to play the current track repeatedly or play a track currently being played in the MP3/WMA folder repeatedly.

CD:

1. Press the [**3**] button once or more until "**RPT ON**" appears on the LCD to perform repeat play.
2. Press [**3**] button repeatedly until "**RPT OFF**" appears on the LCD to cancel repeat playback.

Random play

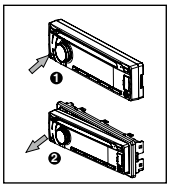
This function allows you to play the current track random play being played in the MP3/WMA folder.

CD:

1. Press the [**4**] button "**RDM ON**" appears on the LCD to perform random play.
2. Press the [**4**] button repeatedly until "**RDM OFF**" appears on the LCD to cancel random playback.

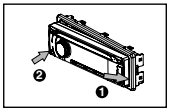
This unit is equipped with a detachable panel. Removing this panel makes the radio totally inoperable.

Remove the detachable panel



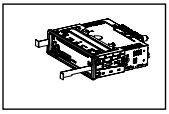
1. Press ⏏ button.
2. Hold the part popped out and pull the panel out.
3. Gently press the button of the case and open the cover. Place the panel into the case and take it with you when you leave the car.

Install detachable panel



1. Fix right part of face plate in the panel slot of the unit.
2. Press down the left side of the face plate until it clicks into the panel slot.

Remove the unit



1. Switch off the power of the unit.
2. Remove the panel and the trim plate.
3. Insert both Removal Keys into the hole on the front of the set until they lock.
4. Pull out the unit.

MENU FUNCTION

At all mode, press and hold [**DISP**] button to enter system setup. Press [⏮] or [⏭] button to select options, rotate the knob to adjust.

DX/LO (RADIO mode)

Rotate the knob to choose radio local or distant at RADIO mode.

- **LO**: Only stations with strong signal can be received.
- **DX**: Stations with strong and weak signals can be received.

STEREO/MONO mode

Rotate the knob to choose FM STEREO or MONO.

SCROLL ON/OFF

Rotate the knob to choose SCROLL ON or OFF.

For track information that is longer than the display panel:

When SCROLL is ON, the LCD will display ID3 TAG information cyclely, e.g: TRACK->FOLDER->FILE->ALBUM->TITLE->ARTIST->TRACK->...

When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by press [**DISP**] button.

BEEP ON/OFF

Rotate the knob to choose button beep sound ON or OFF.

12/24H

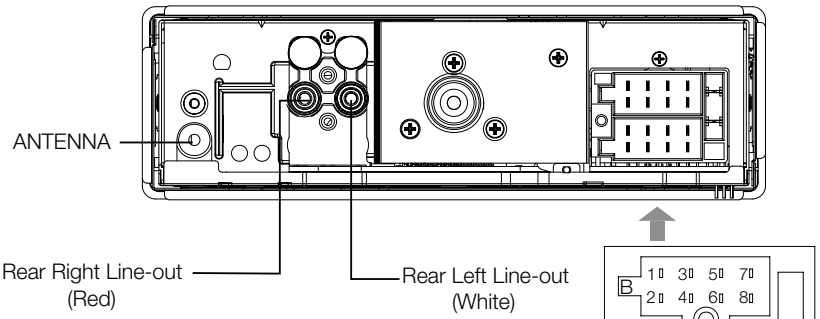
Rotate the knob to choose time format: 12 or 24 hour.

CLOCK

Press the knob to enter clock setting mode, rotate the knob to set clock, press [⏮] or [⏭] button to select hour or minute, press and hold the knob to confirm.

DEVICE CONNECTIONS

Wiring Diagram



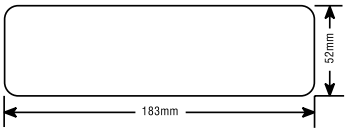
A Compartment	
No.	Pin Definition
A1	NC
A2	NC
A3	NC
A4	Battery +
A5	AMP Remote
A6	NC
A7	ACC+
A8	Ground

B Compartment	
No.	Pin Definition
B1	Rear Right(+)
B2	Rear Right(-)
B3	Front Right(+)
B4	Front Right(-)
B5	Front Left(+)
B6	Front Left(-)
B7	Rear Left(+)
B8	Rear Left(-)

INSTALLATION GUIDE

Installation Opening

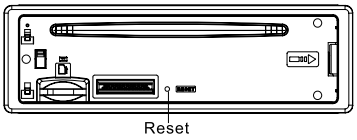
This unit can be installed in any dashboard having an opening as shown below. The dashboard should be 4.75mm - 5.56mm thick in order to be able to support the unit.



If the opening is too small, carefully cut or file as necessary until the sleeve easily slides into the opening. Do not force the sleeve into the opening or cause it to bend or bow. Check for sufficient space behind the dashboard for the unit chassis.

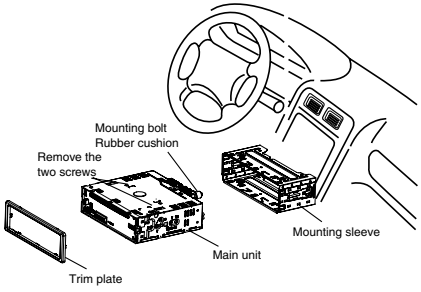
Reset

Press the RESET button with a pointed object to reset the unit to the original status.
Note: Press the RESET button will erase the clock setting and stored stations.



Installation Procedures

1. If relevant, remove any other audio system from the car.
2. Insert the mounting sleeve into the dashboard. Fix it firmly in place by folding down the metal tabs.
3. Perform the required electrical connections.
4. Then check that everything works before installing the main unit.
5. Remove the two screws on the top of the unit, otherwise, the unit will not work.
6. Install the car radio in the dashboard using the supplied screws (M5x6mm).
7. Attach the outer trim frame.
   If you are not sure how to install this unit correctly, contact a qualified technician.



TROUBLESHOOTING

If you suspect something is wrong, immediately switch power off. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

Problem	Possible cause	Solution
General		
The unit will not switch on.	Car ignition is not on. Cable is not properly connected. Fuse is burnt.	Turn your car key in the ignition. Check cable connection. Replace fuse with a new fuse of the same capacity.
No sound	Volume is set at minimum or the mute function is on.	Check the volume or switch the mute function off.
The unit or screen does not function normally.	The unit system is unstable.	Press the RESET button.
TUNER mode		
Unable to receive stations.	The antenna is not connected properly.	Connect the antenna properly.
Poor quality reception of radio station.	The antenna is not fully extended or it is broken.	Fully extend the antenna and if broken, replace it with a new one.
Preset stations are lost.	The battery cable is not properly connected.	Connect the permanent live on the unit to the permanent live on the vehicle.
USB/SD/MMC mode		
Unable to insert USB device or SD/MMC card.	The memory card or USB device has been inserted the wrong way round.	Insert it the other way around.
The USB device or SD/MMC card cannot be read.	NTFS format is not supported.	Check that the USB/SD/MMC file system is in FAT or FAT32 format. Due to different formats, some models of USB storage devices or MP3 players may not be read.

SPECIFICATIONS

General

Power supply:	12VDC (11V-16V), Test voltage 14.4V, negative ground
Maximum power output:	40W x 4 channels
Continuous power output:	20W x 4 channels (4Ω 10% T.H.D.)
Suitable speaker impedance:	4-8ohm
Pre-Amp output voltage:	2.0V (Play mode: 1KHz, 0dB, 10KΩ load)
Fuse:	15A
Dimensions (WxHxD):	188 x 58 x 163mm
Weight:	1.7kg
Aux-in level:	⩾500mV

FM Stereo Radio

Frequency range:	87.5-107.9MHz
Usable sensitivity:	8dBμ
Frequency response:	30Hz-15KHz
Stereo separation:	30dB(1KHz)
Image response ratio:	50dB
IF response ratio:	70dB
Signal/noise ratio:	>55dB

AM(MW) Radio

Frequency range	530-1710KHz
Usable sensitivity (S/N=20dB)	30dBμ

Components

Mounting sleeve	1
Machine screws M5x6 mm	4
Wire connector	1
Trim plate	1
Removal key	2
Operating Instructions	1
Remote control unit	1

Note:

Specifications and the design are subject to change without notice due to improvements.

Limited Warranty

BRAVO VIEW warrants this product (including any accessory and/or cable) against defects in material or workmanship as follows:

1-Year Parts & Labor

BRAVO VIEW stands behind all our products with 1-year parts and labor for from your date of purchase.

All BRAVO VIEW products are covered for a period of one year from the date of purchase against defects in materials and workmanship. The warranty is for repair or replacement at the sole discretion of the selling dealer.
If we choose to replace your product, we may replace it with a new or reconditioned unit of the same or similar design. The customer is responsible for a processing fee in the amount of $20.00 payable to BRAVO VIEW to cover return shipping and handling. ***Warranty service is not offered outside the continental United States.***

This warranty does not cover customer misuse, improper installation, poor signal (including any "noise"), cosmetic damage, damage due by accident, abuse, negligence, commercial use, and improper operation.

Proof of Purchase in the form of a copy of a bill of sale or copy of receipted invoice, which shows clearly the sale of the unit, is required.

Repair or Replacement as provided under this warranty is the exclusive remedy of the consumer. Bravo View Technology shall not be liable for any incidental or consequential damage for breach of any express or implied warranty on this product. In no event shall Bravo View Technology be liable for any incidental or consequential damage whatsoever arising out of the use or inability to use the product. Under no circumstance shall Bravo View Technology's liability exceed the purchase price paid for the product. Except to the extent prohibited by applicable law, any implied warranty or merchantability or fitness for a particular purpose on this product is limited in duration to the duration of this warranty.

Warranty Request:

1. Send an email or write to our customer service department customer@bravoview.com, please provide the following information along with a copy of your *SALES RECEIPT*.
   a. Name:
   b. Email Address:
   c. Phone Number:
   d. Shipping Address:
   e. Purchase Date:
   f. Purchased From:
   g. Serial Number:
   h. Model Number:
   i. Defective Issue:
2. If determined that the item is warrantable, Bravo View will issue a RA# and provide an address to mail the unit back to.
3. Bravo View is not responsible for articles lost or stolen during shipping. IT IS ADVISABLE TO SHIP THE UNIT IN A METHOD IN WHICH YOU CAN TRACK THE PACKAGE, AND POSSIBLY INSURE THE PACKAGE. Bravo View does not cover the expense of mailing the unit back to us.
4. Once Bravo View receives and validates the unit to ensure it is within warranty, Bravo View will replace the unit, fix the unit, or offer a substitute of the unit if a replacement is not available. Bravo View may send a refurbished unit back.

To obtain warranty service, you must contact Bravo View for a Return Authorization Number (RA#).
909-334-4795 or visit www.bravoview.com

PN: 12707500xxxx